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PATENT ABSTRACTS OF JAPAN

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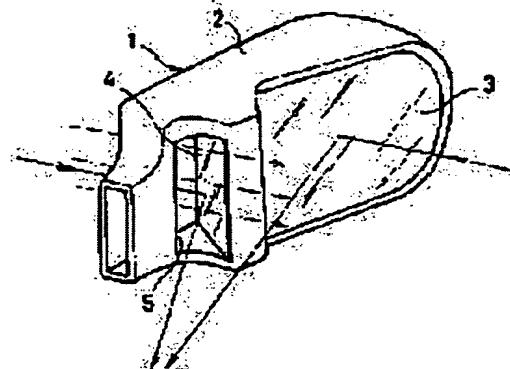
(22)Date of filing : 27.07.1999 (72)Inventor : KONDO HIRONOBU

(54) OUTSIDE MIRROR FOR CAR

(57)Abstract:

PROBLEM TO BE SOLVED: To confirm the front on the opposite side to a driver's seat in following a large vehicle simultaneously with confirming the rear side of an automobile.

SOLUTION: A support case 2 is provided with a mirror 3 for rear view and a mirror 4 for front view. The mirror 4 for front view is fitted into a longitudinal cavity part 5 provided in the support case 2.



Published Japanese Patent Application

JP, 2001-039221, A

CLAIMS

[Claim(s)]

[Claim 1] The rearview mirror for automobiles characterized by equipping a support box with the mirror for seeing the mirror and the front for seeing back.

[Claim 2] The rearview mirror for automobiles according to claim 1 which comes to attach the mirror for preparing the cavernous section of a cross direction in a support box, and seeing the front in it at these cavernous circles.

[Claim 3] The rearview mirror for automobiles according to claim 1 which comes to use the thing of a wide angle rather than the rearview mirror of a standard equipment as a mirror for seeing back while making as [install / a support box is made smaller than the rearview mirror of a standard equipment, and / box / in the rearview mirror top of this standard equipment, or smallness].

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the rearview mirror attached in the outside of the door of an automobile, especially the outside of the door of a driver's seat and an opposite side.

[0002]

[Description of the Prior Art] It is desirable during operation that it is in the state all the front can be seen on a safety operation. However, a large-size car may just sometimes be followed.

[0003] In this case, since an import vehicle (paddle wheel) has a driver's seat in left-hand side, it cannot check the right-hand side front at the time of passing or passing, but can carry out neither passing nor passing smoothly. Moreover, if these are performed by force, it will be easy to lead to accident.

[0004] Moreover, since a driver's seat is in right-hand side in the case of a domestic car, the check ahead of right-hand side can be easily performed by bringing near a vehicle by right-hand side a little. However, a check is easily impossible when it is going to make a course change at a left-hand side lane. For this reason, if there is a vehicle currently parked and stopped, once making a course change, it must return again, and it will be confused, saying that they are a beginner and elderly people, and will be easy to cause accident. Moreover, even if it is an expert, accident may be caused depending on distance with the speed of a vehicle, or the vehicle under stop.

[0005]

[Problem(s) to be Solved by the Invention] While this invention was made in view of the above-mentioned point and could see back as usual, when a large-size car is followed, it uses as an offer plug the rearview mirror for automobiles made as [see / the front of a driver's seat and an opposite side].

[0006]

[Means for Solving the Problem] It ** and the summary of this invention is in the rearview mirror for automobiles characterized by having a mirror for seeing the mirror and the front for seeing back in a support box.

[0007] Moreover, the cavernous section of a cross direction is prepared in a support box, and you may make it install the mirror for seeing the front at these cavernous circles.

[0008] When it does in this way, a wind escapes from the cavernous section during a run of an automobile, therefore a swish is mitigated.

[0009] Moreover, a support box is made smaller than the rearview mirror of a standard equipment, and while making as [install / in the rearview mirror top of this standard equipment, or smallness / it], you may make it use the thing of a wide angle rather than the rearview mirror of a standard equipment as a mirror for seeing back.

[0010] thus, the thing which can be seen for back as usual with the rearview mirror of a standard equipment when it carries out -- in addition, back can be further seen in the latus range Moreover, when a large-size car is followed simultaneously with this,

the front of a driver's seat and an opposite side can also be seen.

[0011]

[Embodiments of the Invention] Hereafter, it explains, referring to a drawing about the operation gestalt of this invention.

[0012] Drawing 1 or drawing 5 is the 1st operation gestalt of this invention, and the front view in the state where were supported drawing 1 with the perspective diagram and drawing 2 was supported with the support frame, and drawing 3 are [the B-B line cross section in drawing 1 and drawing 5 of the A-A line cross section in drawing 1 and drawing 4] explanatory drawings of an example of the angle regulatory mechanism of a mirror.

[0013] One is a rearview mirror among drawing. 2 is a support box in this rearview mirror 1. 3 is a mirror for seeing the back attached at right angles to the rear face of this support box 2. 4 is a mirror for seeing the front attached perpendicularly in the cavernous section 5 of the cross direction prepared in the aforementioned support box 2. Moreover, a convex mirror and prism are used for these mirrors 3 and 4 like a rearview mirror as usual.

[0014] Furthermore, according to the angle from a driver's seat, an operator's seated height, etc., these mirrors 3 and 4 can also adjust an angle so that it may be legible, and this should just perform them with a well-known means again conventionally. namely, -- for example, it is shown in drawing 5 -- as -- a sphere -- although neither the thing of the manual system which adopted the cord-adjusting-ball mechanism which consists of 6 and a support-from-under object 7 of this, nor illustration is carried out, it should just use the thing of the electric formula using the motor In addition, eight in drawing 5 is an angle fixed screw.

[0015] And the aforementioned rearview mirror 1 is attached in the outside of the door of a driver's seat and an opposite side through the support frame 9. In addition, what thing is sufficient as the form of a support frame, and you may make it attach it in a direct door depending on the case, without using a support frame.

[0016] As it **, and **** shows drawing 1 and drawing 3 according to this operation form, the situation ahead of a driver's seat and an opposite side can also be checked in the mirror 4 for being able to check a back situation in the mirror 3 for seeing back, and seeing the front simultaneously.

[0017] In addition, since the cavernous section 5 of a cross direction is formed in the support box 2, as shown in drawing 1, a wind falls out from the cavernous section 5 during a run of an automobile, therefore a swish is mitigated.

[0018] Next, the 2nd operation form of this invention shown in drawing 6 or drawing 8

is explained.

[0019] The aforementioned 1st operation form forms the cavernous section 5, and this operation form and the aforementioned 1st operation form are different in that the cavernous section is not prepared in the interior of it with this operation form to having attached the mirror 4 for seeing the front. In addition, since other composition is the same, the same sign is given to the same member and detailed explanation is omitted.

[0020] Moreover, the case where drawing 8 connects support box 2 a top and the bottom for the case where drawing 7 connects the support box 2 bottom for the case where drawing 6 connects the support box 2 bottom when attaching a rearview mirror 1 in the outside of a door, simultaneously is shown, respectively.

[0021] Next, the 3rd operation form of this invention shown in drawing 9 and drawing 10 is explained.

[0022] This operation form makes the support box 2 smaller than the rearview mirror M of a standard equipment, and the thing of a wide angle is used for it from the rearview mirror M of a standard equipment as a mirror 3 for seeing back while making as [install / on the rearview mirror M of this standard equipment / it]. In addition, the method of the installation to the rearview mirror M of a standard equipment of the support box 2 is performed with proper means, such as adhesion and fixing with a screw.

[0023] It **, and according to this operation form, back can be seen in the still larger range in the mirror 4 for seeing back with the rearview mirror M of a standard equipment in addition to the ability seeing back as usual. And when a large-size car is followed simultaneously with this again, the front of a driver's seat and an opposite side can also be seen.

[0024]

[Effect of the Invention] Since this inventions are the composition like the above, and an operation, when a large-size car is followed, simultaneously with the check by the side of the back of a vehicle, they can also consider the check ahead of an opposite side as a driver's seat.

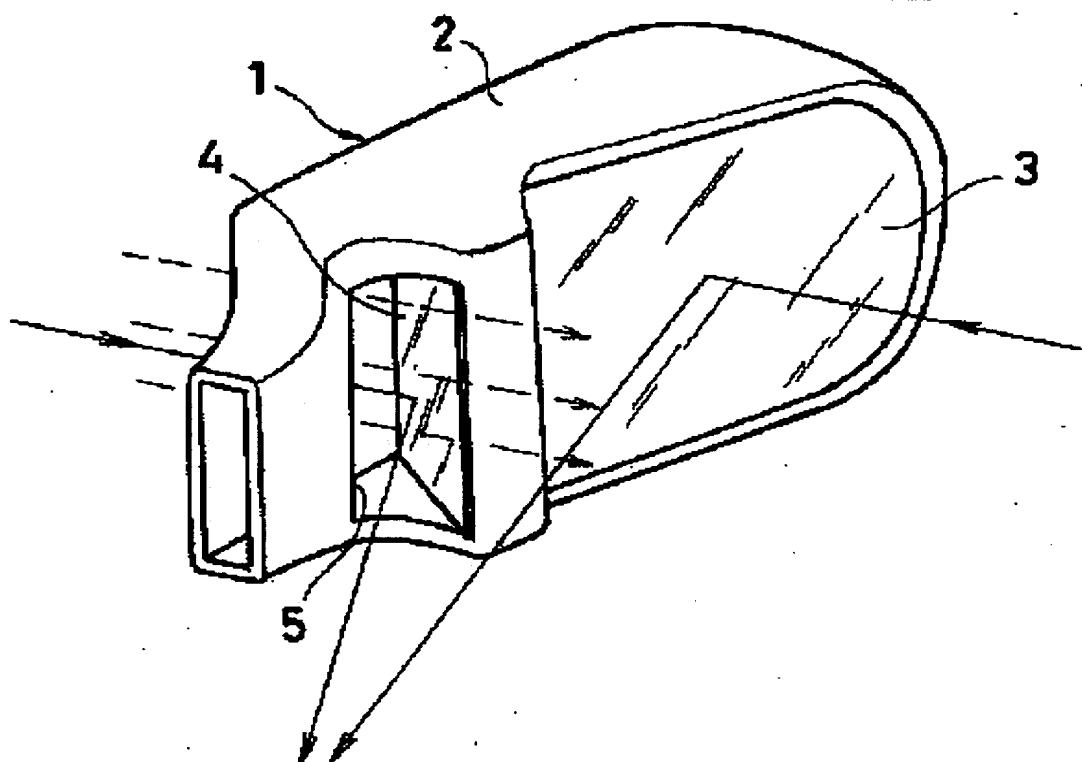
[0025] Moreover, when the mirror for seeing the front to these cavernous circles is attached, the cavernous section of a cross direction can be prepared in a support box, a wind falls out from the cavernous section, it can have and a swish can be mitigated.

[0026] Moreover, it is made smaller than the rearview mirror of a standard equipment of a support box, and while making as [install / on the rearview mirror of a standard equipment, or in the bottom / it], when the thing of a wide angle is used rather than

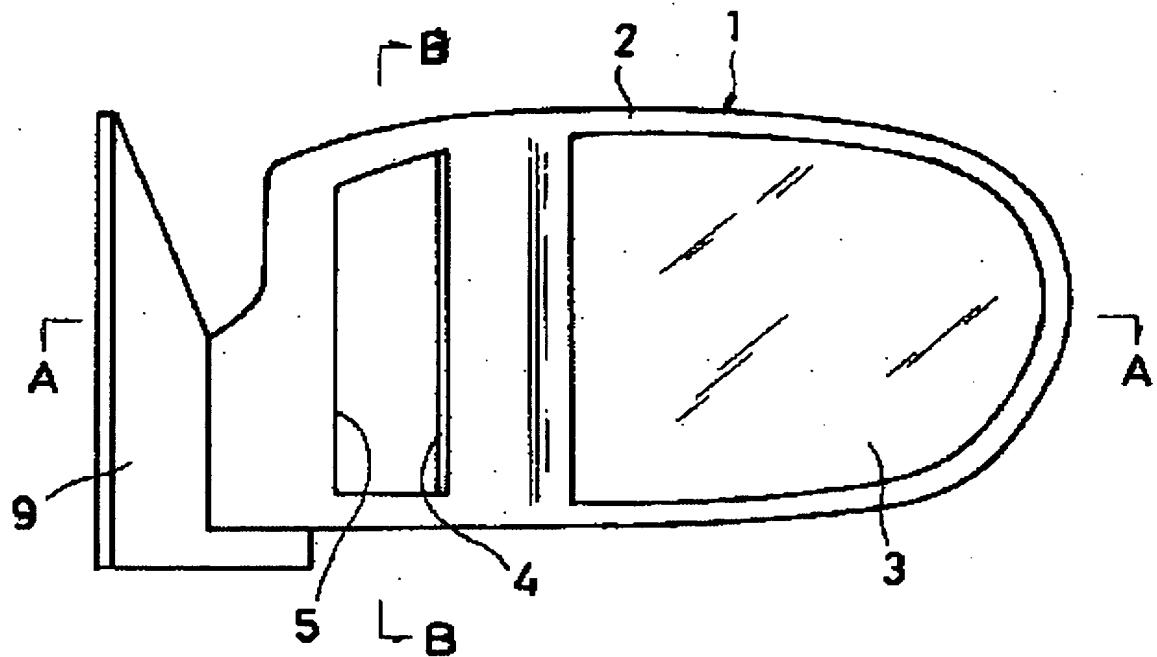
the rearview mirror of a standard equipment as a mirror for seeing back, back can be further seen in the latus range in the mirror for seeing back with the rearview mirror of a standard equipment in addition to the ability seeing back as usual. And when a large-size car is followed simultaneously with this again, the front of a driver's seat and an opposite side can also be seen.

DRAWINGS

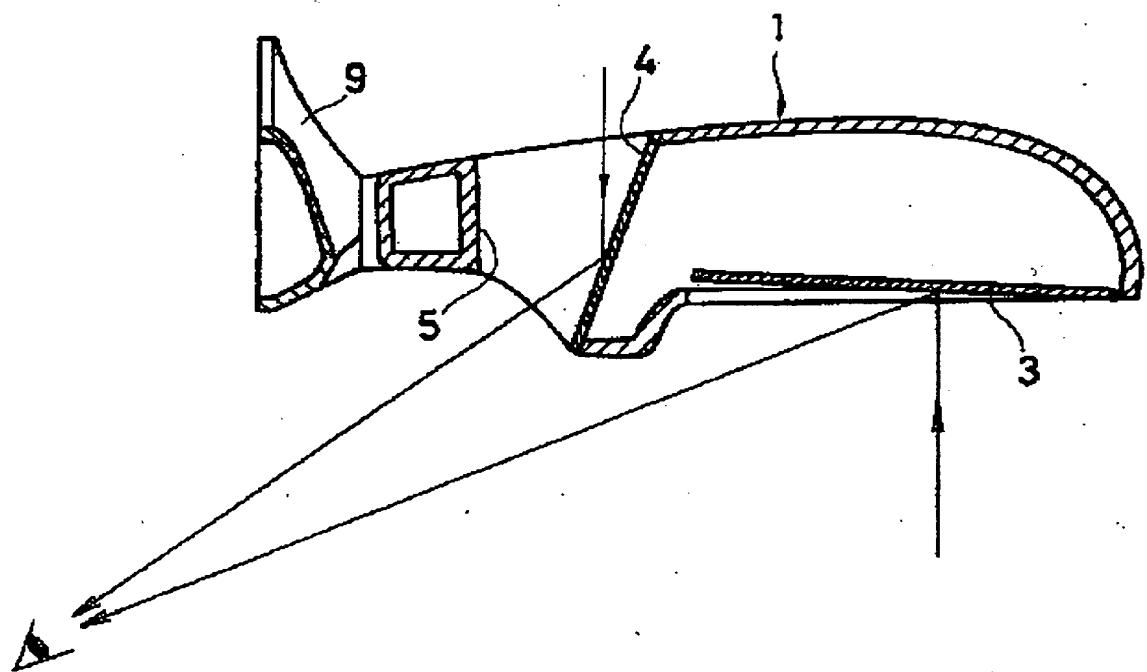
[Drawing 1]



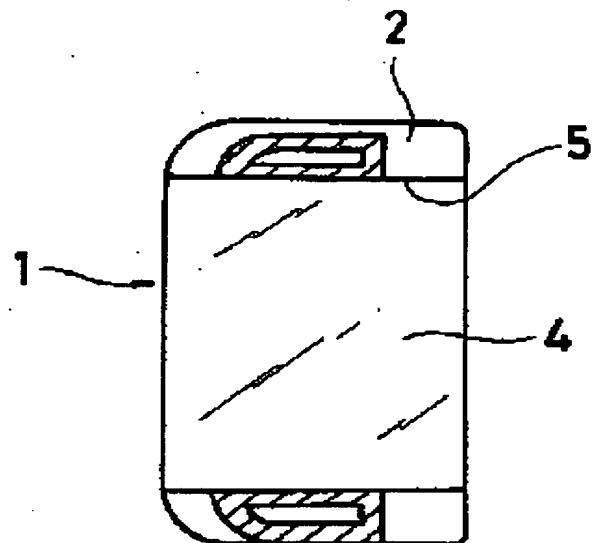
[Drawing 2]



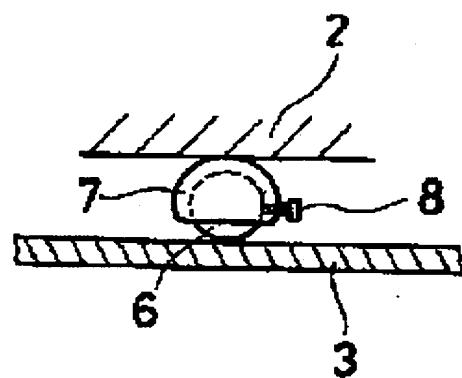
[Drawing 3]



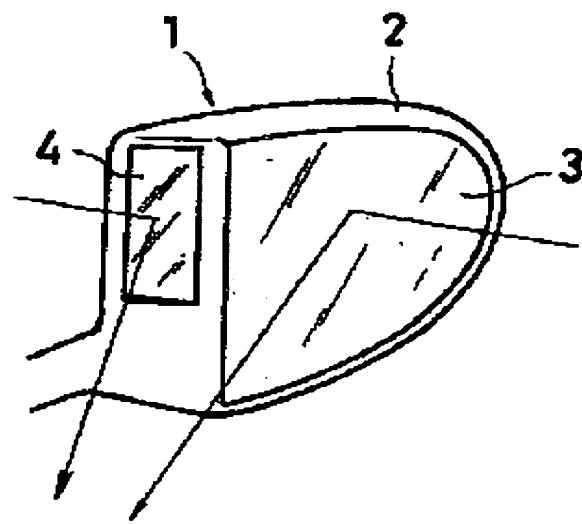
[Drawing 4]



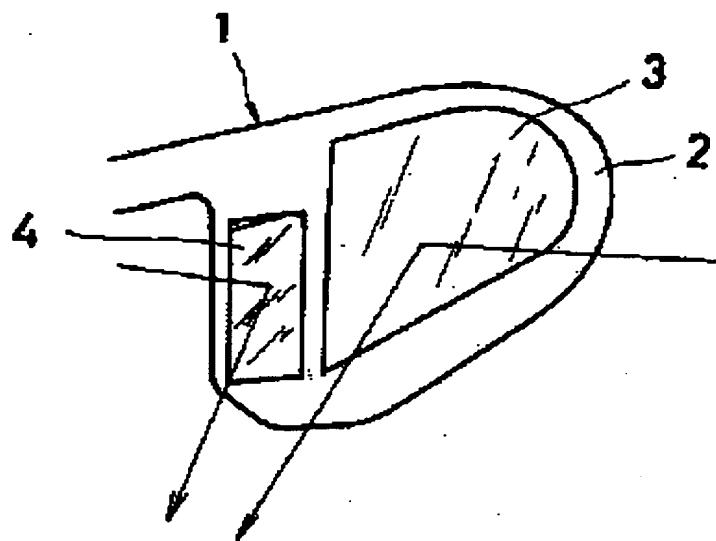
[Drawing 5]



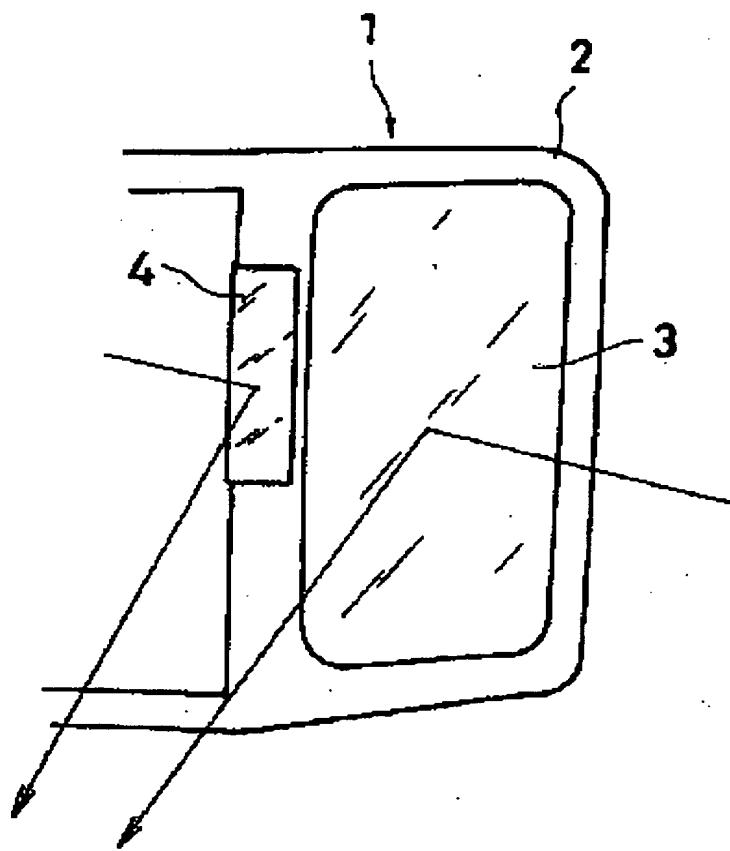
[Drawing 6]



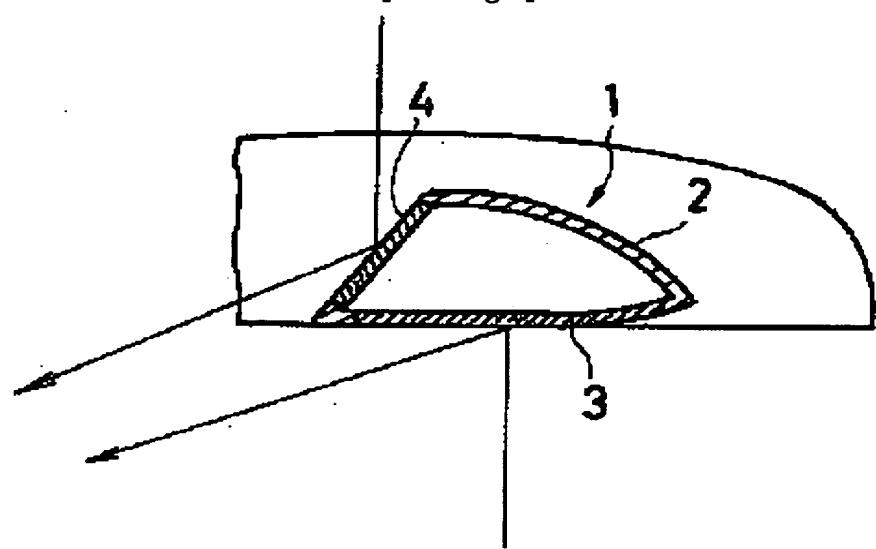
[Drawing 7]



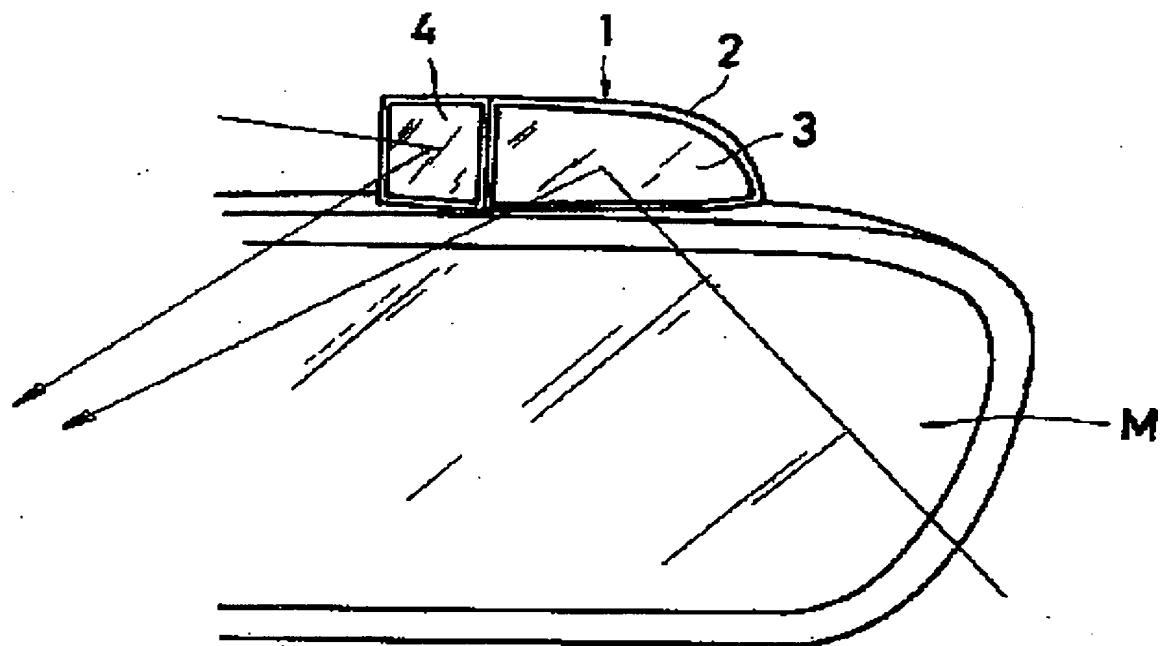
[Drawing 8]



[Drawing 9]



[Drawing 10]



DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the perspective diagram of the rearview mirror concerning the 1st operation gestalt of this invention.

[Drawing 2] It is the front view in the state where it supported with the support frame.

[Drawing 3] It is an A-A line cross section in drawing 1 .

[Drawing 4] It is a B-B line cross section in drawing 1 .

[Drawing 5] It is explanatory drawing of an example of the angle regulatory mechanism of a mirror.

[Drawing 6] It is the perspective diagram of the rearview mirror concerning the 2nd operation gestalt of this invention.

[Drawing 7] It is the perspective diagram of the rearview mirror concerning the 2nd operation gestalt of this invention from which drawing 6 and connecting location differ.

[Drawing 8] It is the perspective diagram of the rearview mirror concerning the 2nd operation gestalt of this invention from which drawing 7 and connecting location differ.

[Drawing 9] It is the cross section seen from the rearview mirror concerning the 3rd operation gestalt of this invention.

[Drawing 10] It is the perspective diagram of the rearview mirror concerning the 3rd operation gestalt of this invention.

[Description of Notations]

1 Rearview Mirror

2 Support Box

3 Mirror for Seeing Back

4 Mirror for Seeing Front

5 Cavernous Section of Cross Direction